3.5” LCD CCTV Test Monitor
ART. 43600

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SAFETY PRECAUTIONS

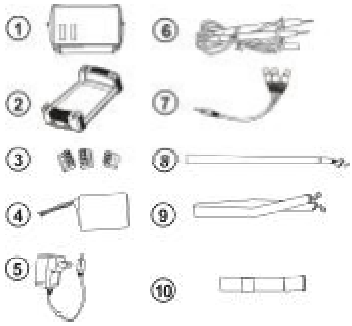
Please read before using

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated dangerous Voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

1. Ground loop maybe causes electrode short-circuit problem. User should follow principle as bellow in order to avoid shock accident.
   a. Don't connect others I/O in AC/DC mode
   b. Don't measure AC/DC voltage in any types of I/O function.
   c. Don't operate AC/DC measure function in charge mode.
2. Please read the service manual in details before using.
3. Don't try to disassemble the chassis or the part easily, in case that touch the power by mistake, is shocked by electricity the danger or caused inside parts to be damaged ,
4. Do not attempt to service this unit yourself unless you are authorized to do so. Opening cover may exposure you to dangerous voltage or other hazards. Refer all servicing to qualified personnel only.
5. When being regular, please lock the parts firmly first to prevent the machine damage.
6. Please connect correctly in accordance with the regulation , prevent the machine from using , or striking improperly.
7. Please don't use any organic solution or the corrosively sanitizer to insert and wipe away the chassis outside . While inserting and wiping away, please turn off the power , and use the clean cloth is stained with letting a small amount of branch water, insert and wipe away appearance.
8. Please don't use the device under the following abominable environments: Temperature is lower than -10 degrees Centigrade, or is higher than +50 degrees Centigrade.

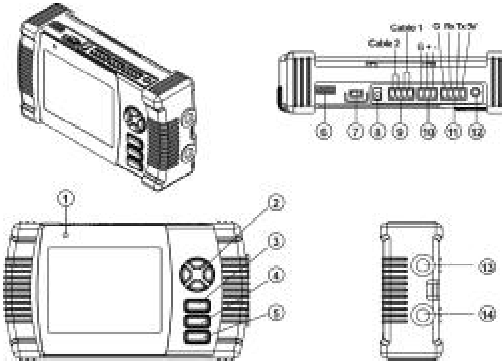
Accessories：



Legend：

① Bag
⑥ Probe
② Safeguard
⑦ Video cable
③ Terminals
⑧ Neck lace
④ Battery
⑨ Belt
⑤ AC adaptor
⑩ Hand link

Exploring your Test Monitor



① System indicator	Green Light：Power on
	Red Light：Charging
② Direction key	Up/Down/L/R direction for select options
③ MENU key	Entry Menu to adjust detail parameters
④ MODE key	Switch function mode
⑤ POWER key	Turn on / off Test Monitor
⑥ ISP interface	Upgrade firmware interface
⑦ Power switch	Turn on / off your Test Monitor
⑧ DC Jack	Adapter in 9V
⑨ Cable test	Cable Open/Short circuit test X 2 sets
⑩ PTZ protocol test	PTZ protocol test for RS485 +/- port terminal
⑪ RS 232 port	Debug for engineer only
⑫ Video extension cord	Connect to video in、out and audio in cable
⑬ Positive probe	+ Probe for DC / AC voltage measurement
⑭ Negative probe	- Probe for DC / AC voltage measurement

Function & Operation

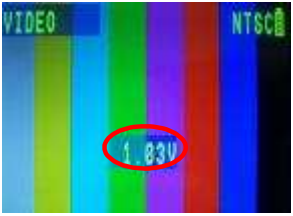
Type A. measurement

1. Video Level：

a. Power on and push “MODE key” to get “VIDEO” page.

b. Connect “Video Out” of device with “Video In” of video extension cord to measure video level.

c. System is auto detects NTSC/ PAL system and measure value will be showed as below.



2. AC/DC Voltage：

a. Switch “MODE key” to get “AC-2 level mode” or “DC” page.

b. Connect two end of termination with probe to measure voltage.

Caution：Distinguish form +/- level is important and necessary in DC measure mode.

c. The measure value will be showed as below.

Type B. tester

3.PTZ control test：

a. Switch “MODE key” to get “RS485” page as below.

b. Push “MENU key” to entry detail Protocol Setup.

c. Make sure your remote device protocol is setup correctly at first then configure this as the same.

For example, Protocol：PELCO P / ID：1 / Baud rate：9600

d. Control direction of PTZ camera by ”direction key” and press “Up + Right” key for Zoom in and press “Down + Left” key for Zoom out is available that vision was shown on monitor presents communication is correct.

4.Cable test：

Open or Short circuit test for 2 sets.

a. Switch “MODE key” to get “CABLE TEST” page.

b. Connect two end of termination with “Cable test terminal” to test circuit status is OK(Short) or NG(Open) as below.

c. 2 testing channels are independently that make sure connect port is pair at first.

5.Audio test：

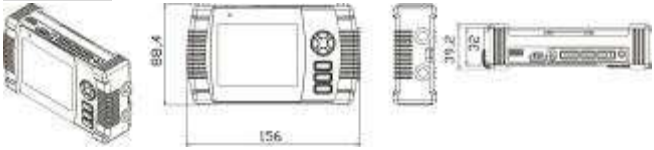
a. Switch “MODE key” to get “VIDEO” page.
b. Click “Up key” or “Down key” to open or close speaker for testing audio output function, default is ON as diagram below.

Type C. video pattern generator

6. Standard pattern output for monitor testing：

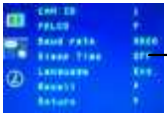
a. Switch “MODE key” to get “PATTERN OUT” page.
b. Connect “Video In” of monitor with “Video Out” of video extension cord to display 8-colorbar standard pattern as below.
c. Switch NTSC / PAL format by “Down key”.

Dimension



Fundamental illustration

1. Language：“Menu key”→”Down key”→Language； There have English, Français, Deutsch, Italiano, ,Español, 日本語, Chinese language to select.



“Sleep Time” means sleep mode timer setting when user no use test monitor that system will turn off power automatically.

2. LCD panel color adjust： Click “Menu key” to entry adjust OSD menu as below.

2. Battery status：Display on the right-up of screen to show battery residual capacity. The full level estimates 6 hours usage, the least level could provide 5 minutes to record important data and ready to turn off.

3. Charge method：System indicator will show charge status. Charge independently is better for battery life and fast short battery charger time.

4. Calibrate method：Adjust the Brightness value to 30 in Menu page then press the “Right key + MODE key” to entry the calibrate mode. The default value is 128 and user could adjust 0~250 to decrease or increase ratio from 0~2 times of measurement value. The adjust measurement parameters include Video level, AC and DC voltage and this coordinate setup will retention forever until your next setting modification.

Notice：When you first time to start using the test monitor, please charge battery above 5 hours to make sure this battery is fully charge to extend its usage life as your cell phone. After that the battery just charge 2~3 hours could be charged fully and enough usage for 5~6 hours. Battery charge life time about 250 times and depend on use environment and operation to decide its decadent speed. Please follow correct charge method to extend battery life.

Caution：Although test monitor could work and charge at the same time, but must do not measure AC voltage when battery in charger mode, it will cause explosive accident!

Specification

Model Name	43600
Display Size	3.5”
Panel backlight	LED type
Display Resolution	320 x 240
Charge voltage	4.2 V ±10%
Battery	2200 mA, Lithium Polymer battery
Charge time	2~3 hours
Standby time	5~6 hours
Video level measurement	0~2 Vpp (Voltage peak to peak value) NTSC/ PAL auto detection
Pattern out	8 Color-bar with 1V standard Vpp
PTZ protocol	PELCO P / D
Protocol Baud rate	2400 / 4800 / 9600 bps
AC voltage range	20~250 V
DC voltage range	0~45 V
Audio test	Build-in speaker for testing (8Ω/1W)
Cable test	Open or Short circuit test X 2 sets
Weight	NW/GW:0.29kg / 1.07kg
Dimension	156 x 90 X 38 mm with safeguard cover
Operating Temp	0 to 45 ℃ (32 to 113 ℉)
Storage Temp	-20 to 45 ℃ (-4 to 113 ℉)

V1.4

The specifications are subject to variations without warning

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